



# Air Force Energy Policy



**BY ORDER OF THE SECRETARY OF THE AIR FORCE** **AIR FORCE POLICY DIRECTIVE 90-17**  
16 JULY 2009  
Special Management  
ENERGY MANAGEMENT

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This directive implements Department of Defense (DoD) Instruction 4170.10, *Energy Management Policy*, August 8, 1991; DoD Instruction 4170.11, *Insulation Energy Management*, November 22, 2003; DoD Instruction 5126.47, *Department of Defense Energy Policy Council*, December 2, 1985; and Office of the Under Secretary of Defense (AT&L) Memorandum, implementing Executive Order 11623, December 31, 2007. This Air Force Policy Directive (AFPD) applies to all military and civilian Air Force personnel; it also applies to all Air Force Reserve Command (AFRC) units and to the Air National Guard (ANG). This publication shall be applied to contractors or other persons through the contract or other legally binding agreement with the Department of the Air Force. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using AF Form 847, *Recommendation for Change of Publication*, route AF Form 847 from the field through the appropriate functional chain of command. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-561, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at <http://www.af.mil/afm33-561a2.htm#afm33-561a2>. See Attachment 1 for a glossary of references and supporting information.

**SUMMARY OF CHANGES**

The original AFPD 23-1, dated 7 September 1993, required updating to meet mission changes. Major changes include establishing energy goals, objectives, and metrics and establishing an Energy Senior Force Group and Energy Management Steering Group in the Headquarters.



**BY ORDER OF THE SECRETARY OF THE AIR FORCE** **AIR FORCE INSTRUCTION 90-1701**  
16 JULY 2009  
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**Chapter 1—OVERVIEW AND RESPONSIBILITIES** 5

1. Overview: 5

1.2. Roles and: 6

**Chapter 2—AIR FORCE ENERGY GOALS, OBJECTIVES, AND METRICS** 13

2.1. Energy Goals, Objectives, and Metrics: 13

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**Signed 16 July**  
**2009**

**AFI 90-1701**  
**Signed 16 July**  
**2009**

**Formally established the AF Energy Program: Strategy, Goals, Objectives and Metrics**



# Air Force Energy Governance

## HQ Air Force Energy Senior Focus Group

Co-Chairs: AF/CV, SAF/US (SAF/IE Interim)

Members: SAF/IE, SAF/AQ, SAF/IA, SAF/PA, SAF/FM, AF/A1, AF/A3/5, AF/A8, AF/A4/7

Executive Secretariat: SAF/IEE

Principal Advisors: AF/ST, AF/A9

### Infrastructure Workgroup

Chair: AF/A7C

Champions:  
AF/A4R, AF/A8,  
SAF/FM

### Acquisition & Tech Workgroup

Chair: SAF/AQR

Champions: AF/A4/7,  
AFCO, DESC, AF/ST

### Aviation Ops Workgroup

Chair: AF/A3/5

Champions:  
AF/A8, SAF/AQ,  
SAF/FM

### International Workgroup

Chair: SAF/IA

Champions:  
SAF/IE, AF/A30,  
SAF/AQ

### Culture Change Workgroup

Chair: AF/A1

Champions: SAF/AQ,  
SAF/IE, A4/7, A7C

### Advisor y Groups

### Strategic Communication Integration Group

Chair: SAF/PA  
Champions: SAF/IE,  
MAJQ

### Critical Infrastructure Protection Workgroup

Chair: AF/A35  
Champions: AF/A7CX, A7S

### Innovative Financing Workgroup

Chair: SAF/FM  
Champions: AF/A8, SAF/AQ,  
AF/A4/7

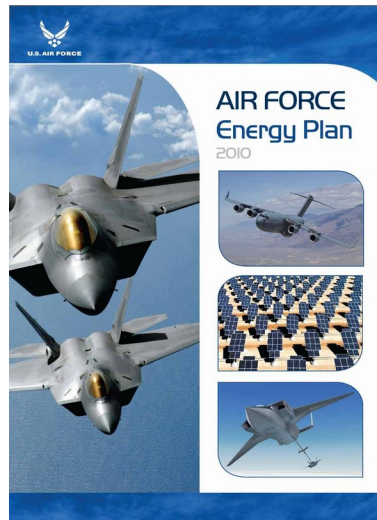
### Operational Energy Planning Workgroup

Chair: SAF/IE  
Champions: SAF/AQ, A5, A8



# ***Air Force Energy Plan***

**3-Part Strategy**  
***Reduce Demand***  
***Increase Supply***  
***Change the Culture***

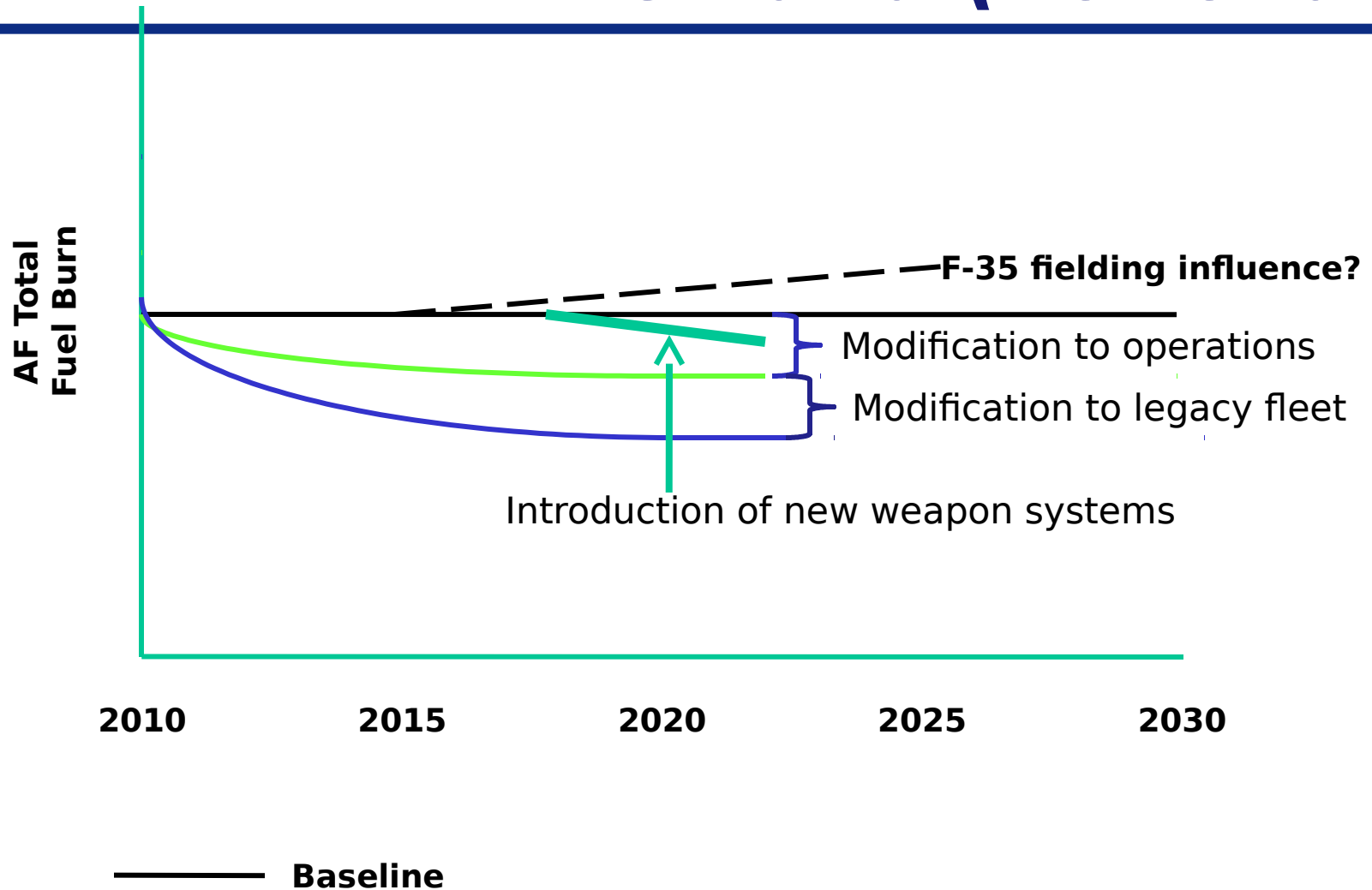


## **Vision**

***Make Energy A Consideration In All We Do***



# Operational Fuel Demand (notional)





# ***NDA 2009***

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- “Life-cycle cost analysis for **new capabilities** include the **fully burdened cost of fuel** during analysis of alternatives and evaluation of alternatives and acquisition program design trades.”
- “...fuel efficiency **key performance parameter** in the requirements development process for the **modification** of existing or **development of new fuel consuming systems**.”
- “analyses and force planning processes that... establish capability requirements and inform acquisition decisions... consider the requirements for, and vulnerability of, fuel logistics.”



## ***FBCF defined***

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- **“Fully burdened cost of fuel” means the commodity price for fuel plus the total cost of all personnel and assets required to move and, when necessary, protect the fuel from the point at which the fuel is received from the commercial supplier to the point of use.**



# ***Why Consider Energy?***

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- **Assured supplies of energy are fundamental to the Air Force - global vigilance, reach, and power depend on energy**
  - **Energy *is* operational access**
- **Future security environment will reduce likelihood of secure sanctuaries and lines of communication - at home and abroad**
  - **Attacks on Iraq/Afg supply lines already suggest strains on assured delivery of energy**
  - **Proliferating precision weapons - ballistic/cruise missiles, rockets, mortars, artillery - will increase threats to operating forces and fuel logistics across spectrum of conflict**
  - **Beyond kinetics, growing cyber threats to power generation and electrical grid**
- **Reducing operational risk from AF dependence on energy should be a consideration across planning, requirements, and acquisition**
  - **Reduce warfighting risk and meet Congressional/OSD mandates related to Fully Burdened Cost of Fuel**